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1 [Modeling the storage architectures of commercial database systems](#) 99%

 D. S. Batory

**ACM Transactions on Database Systems (TODS)** December 1985  
Volume 10 Issue 4

Modeling the storage structures of a DBMS is a prerequisite to understanding and optimizing database performance. Previously, such modeling was very difficult because the fundamental role of conceptual-to-internal mappings in DBMS implementations went unrecognized. In this paper we present a model of physical databases, called the transformation model, that makes conceptual-to-internal mappings explicit. By exposing such mappings, we show that it is possible to model the storage ...

## 2 Techniques for Structuring Database Records 99%

4 Salvatore T. March

**ACM Computing Surveys (CSUR)** January 1983

Volume 15 Issue 1

## 3 Prefix B-trees 99%

4 Rudolf Bayer , Karl Unterauer

**ACM Transactions on Database Systems (TODS)** March 1977

Volume 2 Issue 1

Two modifications of B-trees are described, simple prefix B-trees and prefix B-trees. Both store only parts of keys, namely prefixes, in the index part of a B\*-tree. In simple prefix B-trees those prefixes are selected carefully to minimize their length. In prefix B-trees the prefixes need not be fully stored, but are reconstructed as the tree is searched. Prefix

## 4 StorHouse metanoia - new applications for database, storage & data 99%

4 warehousing

Felipe Cariño , Pekka Kostamaa , Art Kaufmann , John Burgess

**ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data** May 2001

Volume 30 Issue 2

This paper describes the StorHouse/Relational Manager (RM) database system that uses and exploits an *active storage hierarchy*. By active storage hierarchy, we mean that StorHouse/RM executes SQL queries *directly* against data stored on all hierarchical storage (i.e. disk, optical, and tape) without post processing a file or a DBA having to manage a data set. We describe and analyze StorHouse/RM features and internals. We also describe how StorHouse/RM differs from traditional HSM ...

## 5 An experimental distributed modeling system 99%

4 Gary J. Nutt

**ACM Transactions on Information Systems (TOIS)** April 1983

Volume 1 Issue 2

6 Sharing and protection in a single-address-space operating system 99%


 Jeffrey S. Chase , Henry M. Levy , Michael J. Feeley , Edward D. Lazowska

**ACM Transactions on Computer Systems (TOCS)** November 1994

Volume 12 Issue 4

This article explores memory sharing and protection support in Opal, a single-address-space operating system designed for wide-address (64-bit) architectures. Opal threads execute within protection domains in a single shared virtual address space. Sharing is simplified, because addresses are context independent. There is no loss of protection, because addressability and access are independent; the right to access a segment is determined by the protection domain in which a thread executes. T ...

7 An experimental analysis of the performance of fourth generation tools 98%

 on PCs

Victor M. Matos , Paul J. Jalics

**Communications of the ACM** November 1989

Volume 32 Issue 11

The performance of several Fourth Generation Language (4GL) tools is analyzed empirically and compared with equivalent programs written in the third generation COBOL programming language. A set of performance benchmarks consisting of thirteen separate functions is presented which encompasses the areas of simulating the operators of the relational algebra, accessing records in the database, and updating the database. This serves as a baseline for comparing the various 4GL systems.

8 Application-controlled physical memory using external page-cache 98%

 management

Kieran Harty , David R. Cheriton

**ACM SIGPLAN Notices , Proceedings of the fifth international conference on Architectural support for programming languages and operating systems** September 1992

Volume 27 Issue 9

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